

## EAST Search History

| Ref # | Hits    | Search Query  | DBs                       | Default Operator | Plurals | Time Stamp       |
|-------|---------|---|---------------------------|------------------|---------|------------------|
| S1    | 47      | ("345"/\$ and (network near (manag\$ or administ\$))) and optical adj network\$ | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 12:49 |
| S2    | 1       | S1 and channel near view\$  | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:40 |
| S3    | 30      | S1 and channel  | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:42 |
| S4    | 3       | S1 and channel near monitor\$   | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:48 |
| S5    | 1       | S1 and channel near traffic   | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:48 |
| S6    | 1       | channel near traffic near display   | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:48 |
| S7    | 2755725 | channel near\$4 traffic near\$4 display   | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:49 |
| S8    | 2721138 | channel near\$2 traffic near\$2 display   | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:49 |
| S9    | 2493335 | channel near\$1 traffic near\$1 display   | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:49 |
| S10   | 1846    | channel adj display   | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:50 |
| S11   | 129     | S10 and traffic   | US-PGPUB; USPAT; EPO; JPO | OR               | OFF     | 2004/07/19 08:50 |
| S12   | 3227    | channel and traffic and monitoring and optical                                  | USPAT                     | OR               | OFF     | 2004/07/19 11:11 |
| S13   | 77      | "telecommunications network management" and interface                           | USPAT                     | OR               | OFF     | 2004/07/19 11:12 |
| S14   | 37      | S13 and channel   | USPAT                     | OR               | OFF     | 2004/07/19 11:23 |
| S15   | 17      | dwdm and "345"/\$   | USPAT                     | OR               | OFF     | 2004/07/19 12:18 |
| S16   | 60752   | "345"/\$  | USPAT                     | OR               | OFF     | 2004/07/19 12:18 |
| S17   | 4323    | S16 and channel and optical   | USPAT                     | OR               | OFF     | 2004/07/19 12:18 |
| S18   | 2864    | S17 and interface   | USPAT                     | OR               | OFF     | 2004/07/19 12:19 |

## EAST Search History

|     |      |   |                                 |    |     |                  |
|-----|------|---|---------------------------------|----|-----|------------------|
| S19 | 53   | S18 and (345/853.ccls.<br>345/733-738.ccls.)                                  | USPAT                           | OR | OFF | 2004/07/19 12:22 |
| S20 | 6484 | manag\$ and network and topology  | USPAT                           | OR | OFF | 2004/07/19 12:22 |
| S21 | 5302 | S20 and interface   | USPAT                           | OR | OFF | 2004/07/19 12:22 |
| S22 | 2108 | S21 and optical   | USPAT                           | OR | OFF | 2004/07/19 12:23 |
| S23 | 108  | S22 and "345"/\$.ccls.  | USPAT                           | OR | OFF | 2004/07/19 12:27 |
| S24 | 334  | fiber near optic near channels  | USPAT                           | OR | OFF | 2004/07/19 12:32 |
| S25 | 5128 | WDM\$ and (optic\$ near fiber)  | USPAT                           | OR | OFF | 2004/07/19 12:33 |
| S26 | 1311 | S25 and interface   | USPAT                           | OR | OFF | 2004/07/19 12:33 |
| S27 | 17   | S17 and 345/853.ccls.   | USPAT                           | OR | OFF | 2004/07/19 12:36 |
| S28 | 2326 | S17 and "345"/\$.ccls.  | USPAT                           | OR | OFF | 2004/07/19 12:36 |
| S29 | 2327 | S28 and channel and (display\$<br>monitor\$)                                  | USPAT                           | OR | OFF | 2004/07/19 12:37 |
| S30 | 2280 | S28 and channel and (display\$<br>monitor\$)                                  | USPAT                           | OR | OFF | 2004/07/19 12:37 |
| S31 | 145  | S28 and channel near (display\$<br>monitor\$)                                 | USPAT                           | OR | OFF | 2004/07/19 12:39 |
| S32 | 3842 | 709/220-224.ccls.   | USPAT                           | OR | OFF | 2004/07/19 12:40 |
| S33 | 1413 | S32 and (network near (topolgy<br>manag\$) )                                  | USPAT                           | OR | OFF | 2004/07/19 12:41 |
| S34 | 13   | S33 and (wdm)   | USPAT                           | OR | OFF | 2004/07/19 12:42 |
| S35 | 4143 | AON\$   | USPAT                           | OR | OFF | 2004/07/19 12:42 |
| S36 | 246  | S35 and manag\$   | USPAT                           | OR | OFF | 2004/07/19 12:43 |
| S37 | 25   | ("345"/\$ and (network near<br>(manag\$ or administ\$))) and<br>(AON\$ PON\$) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/19 12:58 |
| S38 | 1240 | ("345"/\$ and (network adj<br>(manag\$ or administ\$)))                       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/19 12:58 |
| S39 | 88   | (345/853 and (network adj<br>(manag\$ or administ\$)))                        | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/19 13:03 |
| S40 | 116  | (345/736 and (network adj<br>(manag\$ or administ\$)))                        | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/19 13:14 |
| S41 | 394  | RMON  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/19 13:14 |
| S42 | 126  | RMON and optical  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/19 13:28 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S43 | 217  | RMON and (optical channel)  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/19 13:15 |
| S44 | 3    | wavelength and 345/736.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/19 13:30 |
| S45 | 103  | 345/748.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/19 13:36 |
| S46 | 50   | (345/734).CCLS.   | USPAT;<br>USOCR                           | OR | OFF | 2004/07/14 11:17 |
| S47 | 2    | ((345/734).CCLS.) and optical adj network                                       | USPAT                                     | OR | OFF | 2004/07/13 15:49 |
| S48 | 3    | ((345/734).CCLS.) and optical adj network\$                                     | USPAT                                     | OR | OFF | 2004/07/13 15:51 |
| S49 | 782  | optical adj network\$ and display   | USPAT                                     | OR | OFF | 2004/07/13 15:53 |
| S50 | 37   | optical adj network\$ and "345"/\$.ccls.  | USPAT                                     | OR | OFF | 2004/07/13 15:53 |
| S51 | 42   | optical near network\$ and "345"/\$.ccls.                                       | USPAT                                     | OR | OFF | 2004/07/13 15:53 |
| S52 | 1208 | "345"/\$ and network near manag\$   | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/14 11:17 |
| S53 | 1467 | "345"/\$ and network near (manag\$ or administ\$)                               | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/14 11:18 |
| S54 | 1    | "345"/\$ and ((optical near network) near (manag\$ or administ\$))              | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/14 11:19 |
| S55 | 1467 | "345"/\$ and (network near (manag\$ or administ\$))                             | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/14 11:21 |
| S56 | 572  | ("345"/\$ and (network near (manag\$ or administ\$))) and optical               | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/14 11:23 |
| S57 | 47   | ("345"/\$ and (network near (manag\$ or administ\$))) and optical adj network\$ | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/19 08:39 |
| S58 | 0    | (09/628332).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2004/07/14 12:28 |
| S59 | 1    | "628332".ap.  | US-PGPUB;<br>USPAT;<br>EPO; JPO           | OR | OFF | 2004/07/14 12:32 |

## EAST Search History

|     |        |   |   |    |     |                  |
|-----|--------|---|---|----|-----|------------------|
| S60 | 1      | 10/025925   | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 12:34 |
| S61 | 0      | "09628332"  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 12:34 |
| S62 | 0      | "09/628332"   | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 14:18 |
| S63 | 0      | "METHOD OF DISPLAYING NODES<br>AND LINKS "  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 12:35 |
| S64 | 0      | "METHOD OF DISPLAYING NODES<br>AND LINKS"   | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 12:35 |
| S65 | 0      | "Method of displaying nodes"  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 12:36 |
| S66 | 0      | "Method of displaying nodes"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/07/14 12:37 |
| S67 | 1      | ("6654803").PN.   | USPAT;<br>USOCR                             | OR | OFF | 2004/07/14 12:37 |
| S68 | 6339   | network adj topology  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 14:19 |
| S69 | 161    | (network adj topology) and<br>"345"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 14:21 |
| S70 | 54     | ((network adj topology) and<br>"345"/\$.ccls.) and channel                                | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 14:21 |
| S71 | 224540 | ((((network adj topology) and<br>"345"/\$.ccls.) and channel) and<br>mux or multiplex\$   | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 14:21 |
| S72 | 18     | ((((network adj topology) and<br>"345"/\$.ccls.) and channel) and<br>(mux or multiplex\$) | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 14:26 |
| S73 | 24400  | "345"/\$ and optical  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 14:26 |
| S74 | 5250   | ("345"/\$ and optical) and network<br>and (manag\$ administ\$)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/14 14:27 |

## EAST Search History

|     |        |   |                                 |    |     |                  |
|-----|--------|---|---------------------------------|----|-----|------------------|
| S75 | 175035 | network and (manag\$ administ\$)                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/14 14:28 |
| S76 | 5250   | ("345"/\$ and optical) and<br>(network and (manag\$<br>administ\$))   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/14 14:30 |
| S77 | 579    | 345/853.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/14 14:31 |
| S78 | 234    | 345/853.ccls. and ( optical<br>multiplex\$ channel)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/14 14:42 |
| S79 | 11     | 345/853.ccls. and (optical adj<br>network\$)                          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/14 14:45 |
| S80 | 215    | SONET and "345"/\$  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/14 14:47 |
| S81 | 76     | SONET and "345"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/14 15:01 |
| S82 | 51     | (SONET and "345"/\$.ccls.) and<br>path                                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/14 15:01 |
| S83 | 3388   | dwdm  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 07:33 |
| S84 | 2224   | dwdm and path   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 07:34 |
| S85 | 979    | 345/733-738.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 07:34 |
| S86 | 101    | 345/733-738.ccls. and topology  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 08:02 |
| S87 | 0      | "20040098474".URPN.   | USPAT                           | OR | OFF | 2004/07/15 07:38 |
| S88 | 0      | "20020012011".URPN.   | USPAT                           | OR | OFF | 2004/07/15 07:47 |
| S89 | 0      | "20020012011".URPN.   | USPAT                           | OR | OFF | 2004/07/15 07:47 |
| S90 | 5      | ("5276789"   "5295244"  <br>"5471399"   "6058103"  <br>"6477566").PN. | USPAT                           | OR | OFF | 2004/07/15 07:48 |

## EAST Search History

|      |      |   |                                |    |     |                  |
|------|------|---|--------------------------------|----|-----|------------------|
| S91  | 13   | ("5388189"   "5473596"   "5726979"   "5787245"   "5828840"   "5923885"   "5926631"   "5954829"   "6006016"   "6058420"   "6085191"   "6098093"   "6131118").PN. | USPAT                          | OR | OFF | 2004/07/15 07:55 |
| S92  | 4    | "6356282".URPN.   | USPAT                          | OR | OFF | 2004/07/15 07:56 |
| S93  | 1    | ("5276789").PN.   | USPAT;<br>USOCR                | OR | OFF | 2004/07/15 08:18 |
| S94  | 112  | "5276789".URPN.   | USPAT                          | OR | OFF | 2004/07/15 08:04 |
| S95  | 0    | ("I3and(opticalSONETopticaladjcomponenents)").PN.   | USPAT;<br>USOCR                | OR | OFF | 2004/07/15 08:19 |
| S96  | 182  | 345/733-738.ccls. and (optical SONET optical adjcomponents)   | USPAT                          | OR | OFF | 2004/07/15 08:20 |
| S97  | 19   | (345/733-738.ccls. and (optical SONET optical adjcomponents)) and topology  | USPAT                          | OR | OFF | 2004/07/15 08:20 |
| S98  | 20   | (345/733-738.ccls. and (optical SONET optical adjcomponents)) and (topology NMS)  | USPAT                          | OR | OFF | 2004/07/15 08:21 |
| S99  | 20   | (345/733-738.ccls. and (optical SONET optical adjcomponents)) and (topology NMS)  | USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/07/15 08:21 |
| S100 | 3842 | 709/220-224.ccls.   | USPAT                          | OR | OFF | 2004/07/15 08:27 |
| S101 | 740  | 709/220-224.ccls. and topology  | USPAT                          | OR | OFF | 2004/07/15 08:27 |
| S102 | 42   | (709/220-224.ccls. and topology) and nms  | USPAT                          | OR | OFF | 2004/07/15 08:28 |
| S103 | 42   | (709/220-224.ccls. and topology) and nms  | USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/15 08:29 |
| S104 | 263  | (709/220-224.ccls. and topology) and (optical SONET)  | USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/15 08:31 |
| S105 | 173  | ((709/220-224.ccls. and topology) and (optical SONET)) and path   | USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/15 08:39 |
| S106 | 48   | ((709/220-224.ccls. and topology) and (optical SONET)) and path and alarm   | USPAT;<br>EPO; JPO             | OR | OFF | 2004/07/15 08:54 |

## EAST Search History

|          |     |   |                    |    |     |                  |
|----------|-----|---|--------------------|----|-----|------------------|
| S10<br>7 | 49  | ("5726979" "6058103" "6259679"<br>"6285688" "5673401" "6205154"<br>"6249283" "6347336" "6721321"<br>"5465379" "5999945" "6173295"<br>"4970717" "5564021" "5606439"<br>"5680546" "5729692" "5751454"<br>"5901260" "6061482" "6061482"<br>"6073248" "6151304" RE37044<br>"6215763" "5355124" "5495232"<br>"5515367" "5530575" "5801858"<br>"5914798" "6067179" "6075766"<br>"6101016" "6111672" "6272131"<br>"6272132" "6272548" "6289148"<br>"6330236" "6377579" "6657952"<br>"6728484" "6005992" "4481423"<br>"5457556" "5491573" "5731887"<br>"5740298" "5777761").pn. | USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 09:00 |
| S10<br>8 | 57  | nms and (path with (add/drop Mux<br>multiplex\$))   | USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 09:01 |
| S10<br>9 | 472 | (network adj manag\$) and (path<br>with (add/drop Mux multiplex\$))   | USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 09:02 |
| S11<br>0 | 195 | ((network adj manag\$) and (path<br>with (add/drop Mux multiplex\$)))<br>and topology   | USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 09:02 |
| S11<br>1 | 5   | ((network adj manag\$) and (path<br>with (add/drop Mux multiplex\$)))<br>and topology) and "345"/\$.ccls.   | USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 09:03 |
| S11<br>2 | 49  | ("5726979" "6058103" "6259679"<br>"6285688" "5673401" "6205154"<br>"6249283" "6347336" "6721321"<br>"5465379" "5999945" "6173295"<br>"4970717" "5564021" "5606439"<br>"5680546" "5729692" "5751454"<br>"5901260" "6061482" "6061482"<br>"6073248" "6151304" RE37044<br>"6215763" "5355124" "5495232"<br>"5515367" "5530575" "5801858"<br>"5914798" "6067179" "6075766"<br>"6101016" "6111672" "6272131"<br>"6272132" "6272548" "6289148"<br>"6330236" "6377579" "6657952"<br>"6728484" "6005992" "4481423"<br>"5457556" "5491573" "5731887"<br>"5740298" "5777761").pn. | USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 09:04 |

## EAST Search History

|          |        |   |                    |    |     |                  |
|----------|--------|---|--------------------|----|-----|------------------|
| S11<br>3 | 27     | ("6151304" "6215763" "5355124"<br>"5495232" "5515367" "5530575"<br>"5801858" "5914798" "6067179"<br>"6075766" "6101016" "6111672"<br>"6272131" "6272132" "6272548"<br>"6289148" "6330236" "6377579"<br>"6657952" "6728484" "6005992"<br>"4481423" "5457556" "5491573"<br>"5731887" "5740298" "5777761").<br>pn. | USPAT;<br>EPO; JPO | OR | OFF | 2004/07/15 09:05 |
| S11<br>4 | 26     | "optical network" near manage\$   | USPAT              | OR | OFF | 2004/07/15 09:13 |
| S11<br>5 | 19     | "optical network management"  | USPAT              | OR | OFF | 2004/07/15 09:13 |
| S11<br>6 | 0      | "optical network management"<br>and nms   | USPAT              | OR | OFF | 2004/07/15 09:14 |
| S11<br>7 | 1      | "optical network layer<br>management"   | USPAT              | OR | OFF | 2004/07/15 09:14 |
| S11<br>8 | 4      | "optical network layer"   | USPAT              | OR | OFF | 2004/07/15 09:19 |
| S11<br>9 | 368    | network adj manag\$ adj software  | USPAT              | OR | OFF | 2004/07/15 09:20 |
| S12<br>0 | 119    | (network adj manag\$ adj<br>software) and (sonet optical)   | USPAT              | OR | OFF | 2004/07/15 09:20 |
| S12<br>1 | 97     | ((network adj manag\$ adj<br>software) and (sonet optical)) and<br>(add/drop channel component<br>alarm)  | USPAT              | OR | OFF | 2004/07/15 09:21 |
| S12<br>2 | 783899 | optical network administration gui  | USPAT              | OR | OFF | 2004/07/15 10:32 |
| S12<br>3 | 0      | "optical network administration<br>gui"   | USPAT              | OR | OFF | 2004/07/15 10:33 |
| S12<br>4 | 60     | "network administration" and gui  | USPAT              | OR | OFF | 2004/07/15 10:46 |
| S12<br>5 | 1      | "network administration" near gui   | USPAT              | OR | OFF | 2004/07/15 10:47 |
| S12<br>6 | 5464   | "optical component"   | USPAT              | OR | OFF | 2004/07/15 10:47 |
| S12<br>7 | 48     | "optical component" and "345"/\$.<br>ccls.  | USPAT              | OR | OFF | 2004/07/15 10:48 |
| S12<br>8 | 10     | ("optical component" and "345"/\$.<br>ccls.) and network  | USPAT              | OR | OFF | 2004/07/15 11:13 |
| S12<br>9 | 8206   | network adj ( administration<br>manag\$)  | USPAT              | OR | OFF | 2004/07/15 11:13 |
| S13<br>0 | 8880   | (network adj ( administration<br>manag\$)) nms  | USPAT              | OR | OFF | 2004/07/15 11:13 |



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|          |      |   |       |    |     |                  |
|----------|------|---|-------|----|-----|------------------|
| S13<br>1 | 134  | ((network adj ( administration manag\$)) nms) and (307/903.ccls. 345/853-855.ccls. 709/220-224 345/733-738.ccls.)   | USPAT | OR | OFF | 2004/07/15 11:20 |
| S13<br>2 | 64   | (((network adj ( administration manag\$)) nms) and (307/903.ccls. 345/853-855.ccls. 709/220-224 345/733-738.ccls.)) and (sonet optic\$)   | USPAT | OR | OFF | 2004/07/15 11:30 |
| S13<br>3 | 25   | ("5295244"   "5375199"   "5436909"   "5504921"   "5517655"   "5606664"   "5726979"   "5742762"   "5751933"   "5751965"   "5761429"   "5761432"   "5768552"   "5778377"   "5812750"   "5821937"   "5831610"   "5859978"   "5870558"   "5887139"   "5889954"   "6020889"   "6243452"   "6377993"   "6385644").PN. | USPAT | OR | OFF | 2004/07/15 11:27 |
| S13<br>4 | 1433 | add/drop and optical  | USPAT | OR | OFF | 2004/07/15 11:32 |
| S13<br>5 | 593  | add/drop and optical adj network  | USPAT | OR | OFF | 2004/07/15 11:33 |
| S13<br>6 | 1    | (add/drop and optical adj network) and "345"/\$.ccls.   | USPAT | OR | OFF | 2004/07/15 11:35 |
| S13<br>7 | 473  | multiplexor and "345"/\$.ccls.  | USPAT | OR | OFF | 2004/07/15 11:36 |
| S13<br>8 | 0    | multiplexor and (((network adj ( administration manag\$)) nms) and (307/903.ccls. 345/853-855.ccls. 709/220-224 345/733-738.ccls.))   | USPAT | OR | OFF | 2004/07/15 11:36 |
| S13<br>9 | 0    | (((network adj ( administration manag\$)) nms) and (307/903.ccls. 345/853-855.ccls. 709/220-224 345/733-738.ccls.)) and mux   | USPAT | OR | OFF | 2004/07/15 11:36 |
| S14<br>0 | 61   | (((network adj ( administration manag\$)) nms) and (307/903.ccls. 345/853-855.ccls. 709/220-224 345/733-738.ccls.)) and optic\$   | USPAT | OR | OFF | 2004/07/15 11:37 |
| S14<br>1 | 385  | cmip  | USPAT | OR | OFF | 2004/07/15 13:02 |
| S14<br>2 | 97   | cmip and WAN  | USPAT | OR | OFF | 2004/07/15 13:03 |
| S14<br>3 | 3    | "6359729".URPN.   | USPAT | OR | OFF | 2004/07/15 13:09 |

## EAST Search History

|          |        |   |   |    |     |                  |
|----------|--------|---|---|----|-----|------------------|
| S14<br>4 | 7      | ("5113459"   "5532864"   "5870213"   "5905715"   "5914794"   "5978115"   "6163392").PN.             | USPAT                                       | OR | OFF | 2004/07/15 13:10 |
| S14<br>5 | 28022  | hp openview   | USPAT                                       | OR | OFF | 2004/07/15 13:19 |
| S14<br>6 | 28859  | hp open adj view  | USPAT                                       | OR | OFF | 2004/07/15 13:20 |
| S14<br>7 | 65     | hp and open adj view  | USPAT                                       | OR | OFF | 2004/07/15 13:49 |
| S14<br>8 | 0      | "6504646".URPN.   | USPAT                                       | OR | OFF | 2004/07/15 13:35 |
| S14<br>9 | 0      | "6504646".URPN.   | USPAT                                       | OR | OFF | 2004/07/15 13:35 |
| S15<br>0 | 8      | ("5113459"   "5532864"   "5870213"   "5905715"   "5914794"   "5978115"   "6163392"   "6359729").PN. | USPAT                                       | OR | OFF | 2004/07/15 13:35 |
| S15<br>1 | 87     | "telecommunications network management"   | USPAT                                       | OR | OFF | 2004/07/15 13:51 |
| S15<br>2 | 3      | "telecommunications network management" and "345"/\$.cls.   | USPAT                                       | OR | OFF | 2004/07/15 13:50 |
| S15<br>3 | 77     | "telecommunications network management" and interface   | USPAT                                       | OR | OFF | 2004/07/19 11:12 |
| S15<br>4 | 3089   | route near2 selection   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 12:27 |
| S15<br>5 | 895544 | route near2 selection and optical network   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 12:27 |
| S15<br>6 | 181    | route near2 selection and optical near3 network   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 12:27 |
| S15<br>7 | 433    | (route path) near2 selection and optical near3 network  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 12:31 |
| S15<br>8 | 9418   | (route path) near2 selection  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 12:31 |

## EAST Search History

|          |      |  |   |    |     |                  |
|----------|------|--|---|----|-----|------------------|
| S15<br>9 | 3494 | (route path) near2 selection and interface   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 12:32 |
| S16<br>0 | 112  | (route path) near2 selection and "715"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 12:32 |
| S16<br>1 | 112  | (route path) near2 selection and "715"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 12:32 |
| S16<br>2 | 0    | "6112015".pn. and route  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 13:22 |
| S16<br>3 | 0    | "6112015".pn. and path   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 13:23 |
| S16<br>4 | 2    | "6112015".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/03/28 13:23 |
| S16<br>5 | 10   | ("5261044"   "5295244"   "5325481"   "5375199"   "5394522"   "5394523"   "5471399"   "5483631"   "5586255"   "5726979").PN.                  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/03/28 13:26 |
| S16<br>6 | 4    | ("5261044"   "5295244"   "5325481"   "5375199"   "5394522"   "5394523"   "5471399"   "5483631"   "5586255"   "5726979").PN. and (route path) | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/03/28 13:26 |
| S16<br>7 | 16   | optical with topology with add/drop  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2006/04/13 11:24 |
| S16<br>8 | 0    | optical with topology with filter with view  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2006/04/13 11:25 |
| S16<br>9 | 43   | optical with topology with view  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2006/04/13 11:29 |
| S17<br>0 | 1    | "20040081308"  | US-PGPUB;<br>USPAT;<br>EPO; JPO             | OR | OFF | 2006/04/13 11:44 |

## EAST Search History

|          |       |   |                                 |    |     |                  |
|----------|-------|---|---------------------------------|----|-----|------------------|
| S17<br>1 | 0     | network with route with noe   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:30 |
| S17<br>2 | 3574  | network with route with node  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:30 |
| S17<br>3 | 74849 | network with route with node<br>topology  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:30 |
| S17<br>4 | 230   | network with route with node with<br>topology   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:32 |
| S17<br>5 | 74    | network with (route path) with<br>node with topology with select\$5                       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:34 |
| S17<br>6 | 4103  | network with (route path) with<br>node with (manag\$5 monitor)<br>topology with select\$5 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:34 |
| S17<br>7 | 172   | network with (route path) with<br>node with (manag\$5 monitor<br>topology) with select\$5 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:34 |
| S17<br>8 | 6091  | optical with route  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:45 |
| S17<br>9 | 241   | optical with route with link  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:46 |
| S18<br>0 | 4     | optical with route with node with<br>select   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:46 |
| S18<br>1 | 169   | topology and route with node with<br>select   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:49 |
| S18<br>2 | 900   | 715/734-736.ccls. route with node<br>with select  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:49 |
| S18<br>3 | 0     | 715/734-736.ccls. and route with<br>node with select                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 11:50 |
| S18<br>4 | 19    | 715/734-736.ccls. and route with<br>node  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 12:20 |
| S18<br>5 | 6     | "6487604"   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2006/04/13 12:28 |